

Python: module cdutil.region

cdutil.region

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Classes

[cdms.selectors.SelectorComponent](#)
[DomainComponent](#)

class **DomainComponent**([cdms.selectors.SelectorComponent](#))

gets a domain, and by default adjusts the bounds to the domain or if exact is set to 0 or None gets all the domain that has parts of the domain requested, also post processing allows you to apply dimension names can be passed as keywords, but if no name is passed arguments are taken in order and applied to the axes. Overwritting an axis (2 keywords or keyword + argument) is not allowed.

Example of use:

```
NH=cdms.selectors.Selector(domain(latitude=(0., 90.)))
```

Methods defined here:

__init__(self, *args, **kargs)

initialise some value such as tolerances for equality

__str__(self)

post(self, fetched, slab, axes, specifications, confined_by, aux, axismap)

Post processing retouches the bounds and later will deal with them

same(self, data, value)

Check if data is basically the same than value

specify(self, slab, axes, specification, confined_by, aux)

First part: confine the slab within a Domain wide enough to cover it

Methods inherited from [cdms.selectors.SelectorComponent](#):

specifyGrid(self, var, grid, specs)

Refine the specification suitable for grid.intersect().

'var' is a variable.

'grid' is the grid associated with the variable.

'specs' is the result set of specifications, of the form defined in SelectorComponent

Return:
0 if self confines the grid.
1 if self is not associated with coordinate regions, or does not have coordinate regions.

Note: This function should return 0 only if self is a component of a rectilinear grid. It should return 1 for nonrectilinear grids. See class `coordinateComponent`.

Functions

`domain(*args, **kargs)`
construct the selector

Data

`AAZ` = Selector(<cdutil.region.DomainComponent instance at 0x402a810c>)
`AZ` = Selector(<cdutil.region.DomainComponent instance at 0x402a834c>)
`AntarcticZone` = Selector(<cdutil.region.DomainComponent instance at 0x402a810c>)
`ArcticZone` = Selector(<cdutil.region.DomainComponent instance at 0x402a834c>)
`NH` = Selector(<cdutil.region.DomainComponent instance at 0x402a6a4c>)
`NPZ` = Selector(<cdutil.region.DomainComponent instance at 0x402a834c>)
`NorthernHemisphere` = Selector(<cdutil.region.DomainComponent instance at 0x402a6a4c>)
`SH` = Selector(<cdutil.region.DomainComponent instance at 0x402a6c8c>)
`SPZ` = Selector(<cdutil.region.DomainComponent instance at 0x402a810c>)
`SouthernHemisphere` = Selector(<cdutil.region.DomainComponent instance at 0x402a6c8c>)
`Tropics` = Selector(<cdutil.region.DomainComponent instance at 0x402a822c>)